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10/518,303	05/26/2005	Pasqua Anna Oreste	3687-100	6675
23117 NIXON & VAN	7590 09/05/200 NDERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			LAU, JONATHAN S	
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			1609	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/518,303	ORESTE ET AL.
Office Action Summary	Examiner	Art Unit
	Jonathan S. Lau	1609
The MAILING DATE of this communication app Period for Reply	oears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a)). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. lely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Expression in the Expression in t	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 60-115 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 60-115 are subject to restriction and/or Application Papers	wn from consideration.	
·· _ ·		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s)		·
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 60-78, drawn to a method of making an N-acyl-epiK5-amine-O-oversulfate-derivative.

Group II, claim(s) 79-89 and 101-114, drawn to the epiK5-amine-O-oversulfate-derivative of 100% N-acylated N-acyl-epiK5-amine-O-oversulfate-derivative and a pharmaceutical composition of an epiK5-amine-O-oversulfate-derivative such the epiK5-amine-O-oversulfate-derivative of LMW-epiK5-N-sulfate.

Group III, claim(s) 90-100, drawn to a 100% N-acylated N-acyl-K5-amine-O-oversulfate-derivative.

Group IV, claim(s) 115, drawn to a cosmetic composition containing a LMW-epiK5-N-sulfate.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The common technical feature of the inventions of Groups I-IV is a epiK5-amine-O-oversulfate-derivative. However, the N-sulfated epimerized K5 polysaccharide, a derivative of epiK5-amine-O-oversulfate, is a known product. See Kusche et al., abstract, lines 10-12 (Biochem. J., 1991, 275, p151-158, cited in PTO-892). Therefore the epiK5-amine-

O-oversulfate-derivative does not serve as the special technical feature of a single inventive concept. The special technical feature of Group I is the specific methods of making an N-acyl-epiK5-amine-O-oversulfate-derivative. The special technical feature of Group II is the epiK5-amine-O-oversulfate derivative and pharmaceutical compositions thereof. The special technical feature of Group III is the 100% N-acylated N-acyl-K5-amine-O-oversulfate-derivative. The special technical feature of Group IV is the cosmetic composition containing a LMW-epiK5-N-sulfate. These special technical features are all different, and therefore there is no unity of invention.

If Applicant elects the invention of Group II, the following species election is required.

This application contains claims directed to more than one species of the generic invention of an epiK5-amine-O-oversulfate-derivative. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species of an epiK5-amine-O-oversulfate-derivative are as follows:

- a) a 100% N-acylated N-acyl-epiK5-amine-O-oversulfate-derivative, for example disclosed in claim 83,
- b) an epiK5-amine-O-oversulfate-derivative wherein the amine is a free amine, for example disclosed in claim 103,
 - c) a LMW-epiK5-N-sulfate, for example disclosed in claim 114, or

d) an epiK5-amine-O-oversulfate-derivative wherein the amine is neither a free amine, nor an N-acylated derivative, nor an N-sulfate derivative, disclosed as the negation of all the examples given above.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Claims 101, 102, 112, and 113 are generic to an epiK5-amine-O-oversulfate-derivative.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The common technical feature of the generic invention is the epiK5-amine-O-oversulfate-derivative. However, the N-

sulfated epimerized K5 polysaccharide, a derivative of epiK5-amine-O-oversulfate, is a known product. See Kusche et al., abstract, lines 10-12 (Biochem. J., 1991, 275, p151-158, cited in PTO-892). Therefore the epiK5-amine-O-oversulfate-derivative does not serve as the special technical feature of a single inventive concept.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are

subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan S. Lau whose telephone number is 571-270-3531. The examiner can normally be reached on Monday - Thursday, 9 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisors, Ardin Marschel can be reached on 571-272-0718 or Cecilia Tsang can be reached on (571)272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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JSL

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ARDIN H. MARSCHEL

SUPERVISORY PATENT EXAMINER